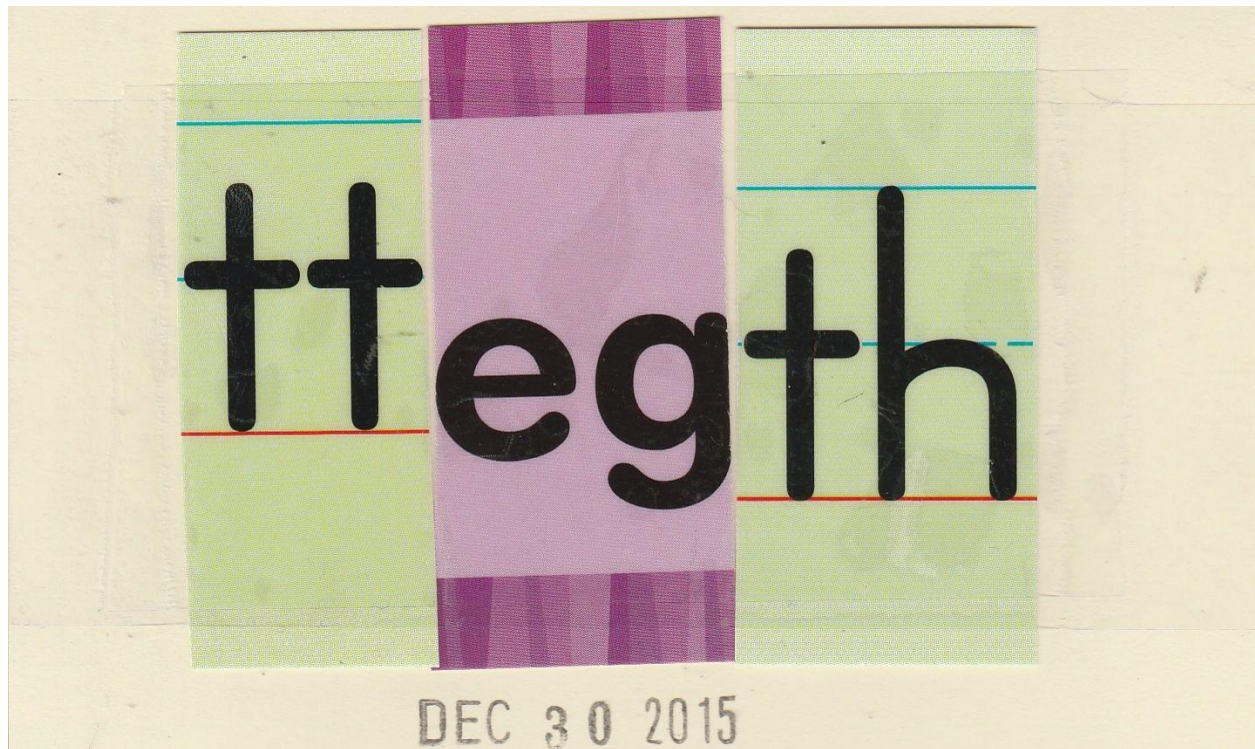


Jim Leftwich Vispo 2015 Ongoing Research Volume 13





A Provisional' Definition  
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start with something we  
can think of as trash,  
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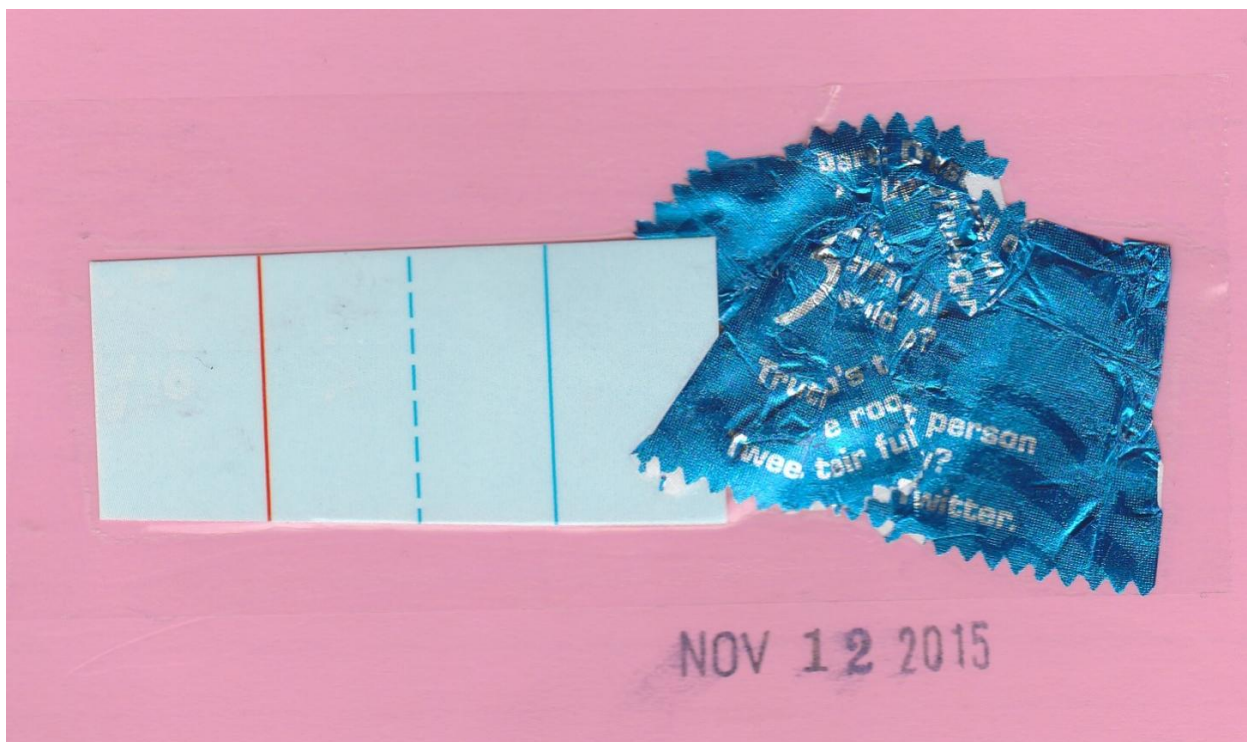
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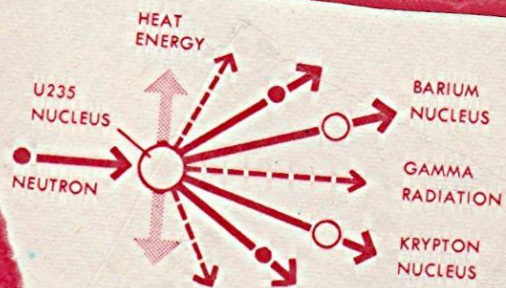
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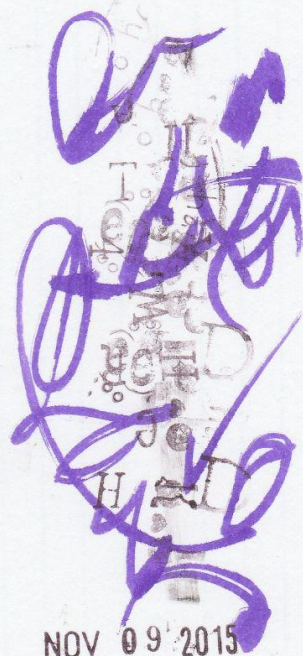
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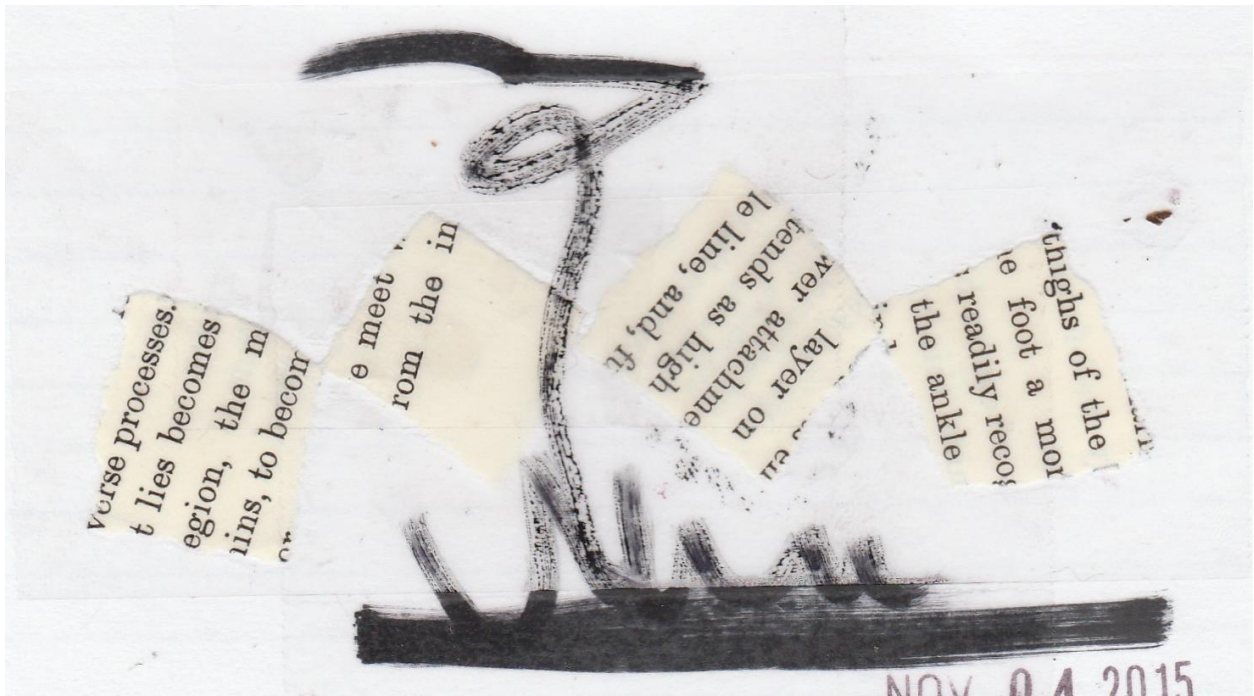
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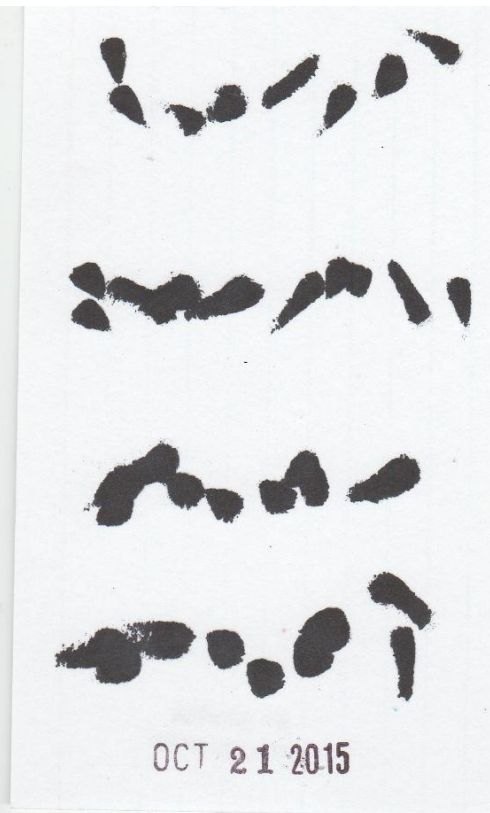
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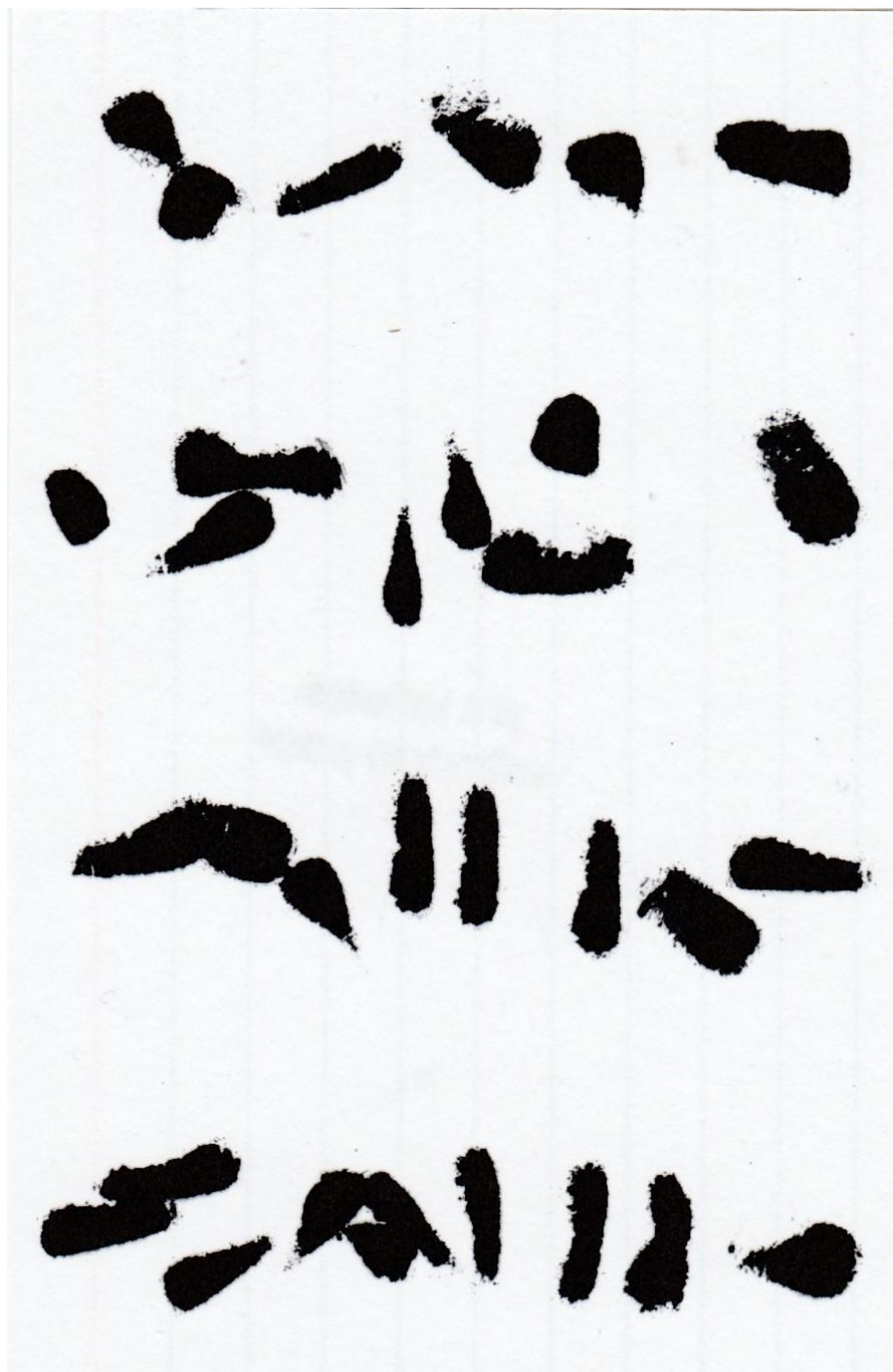












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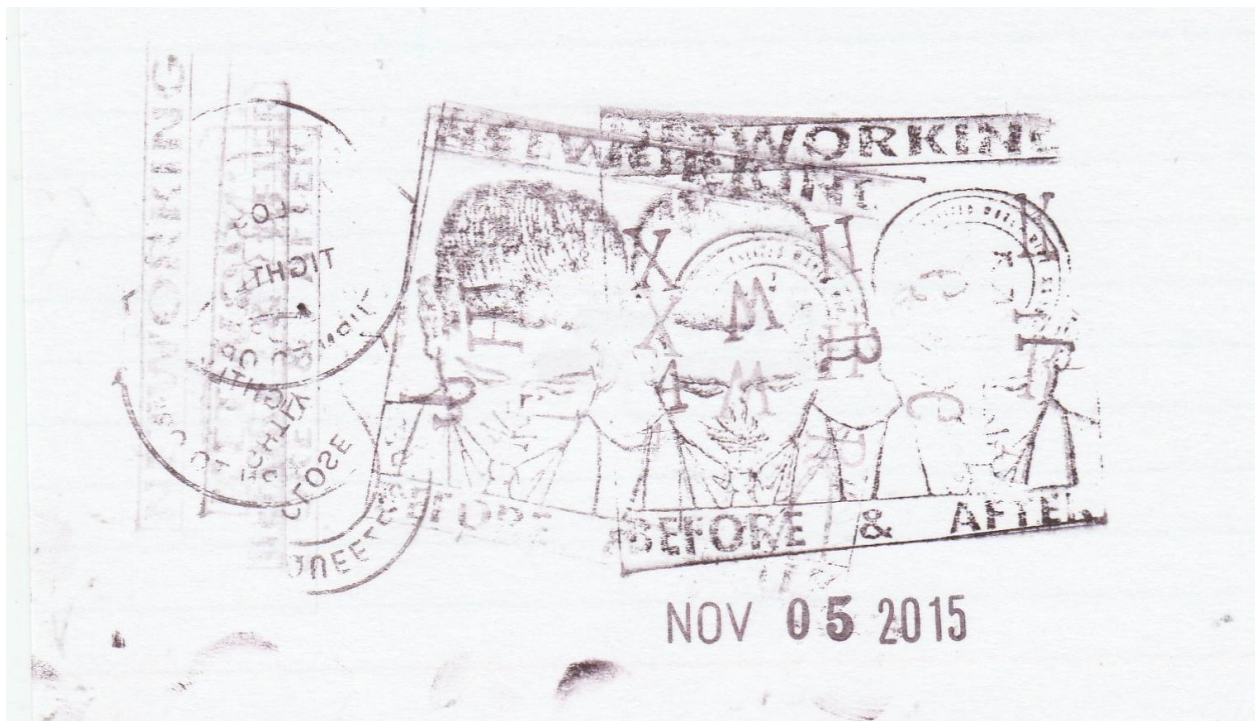
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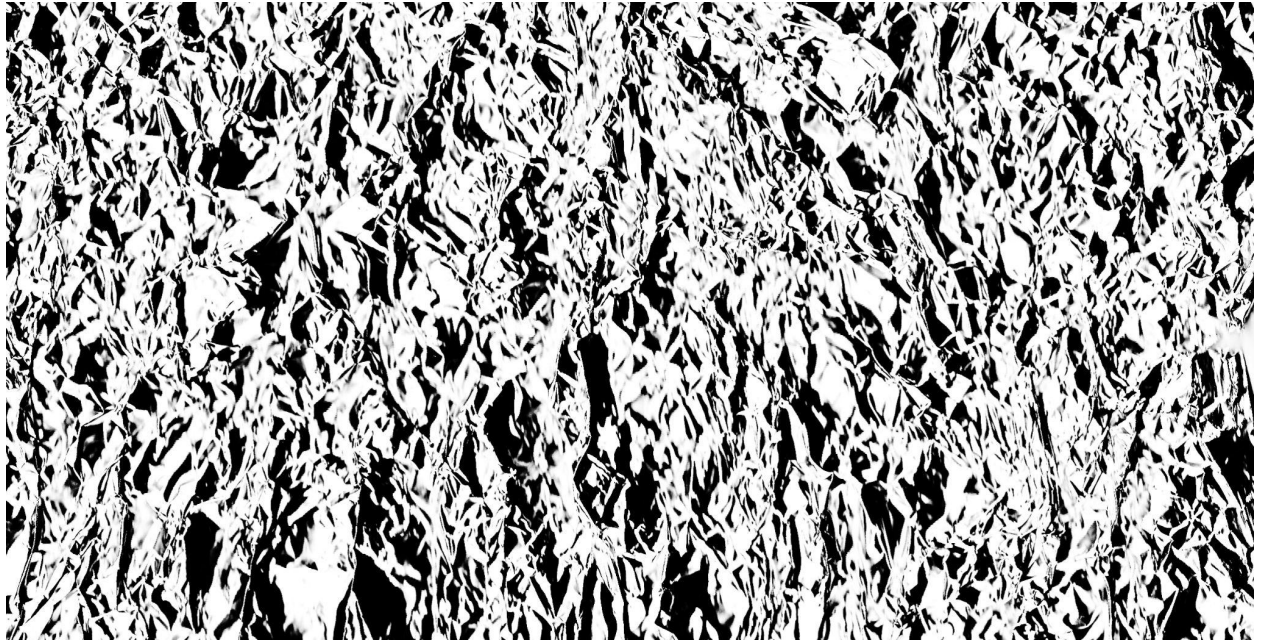








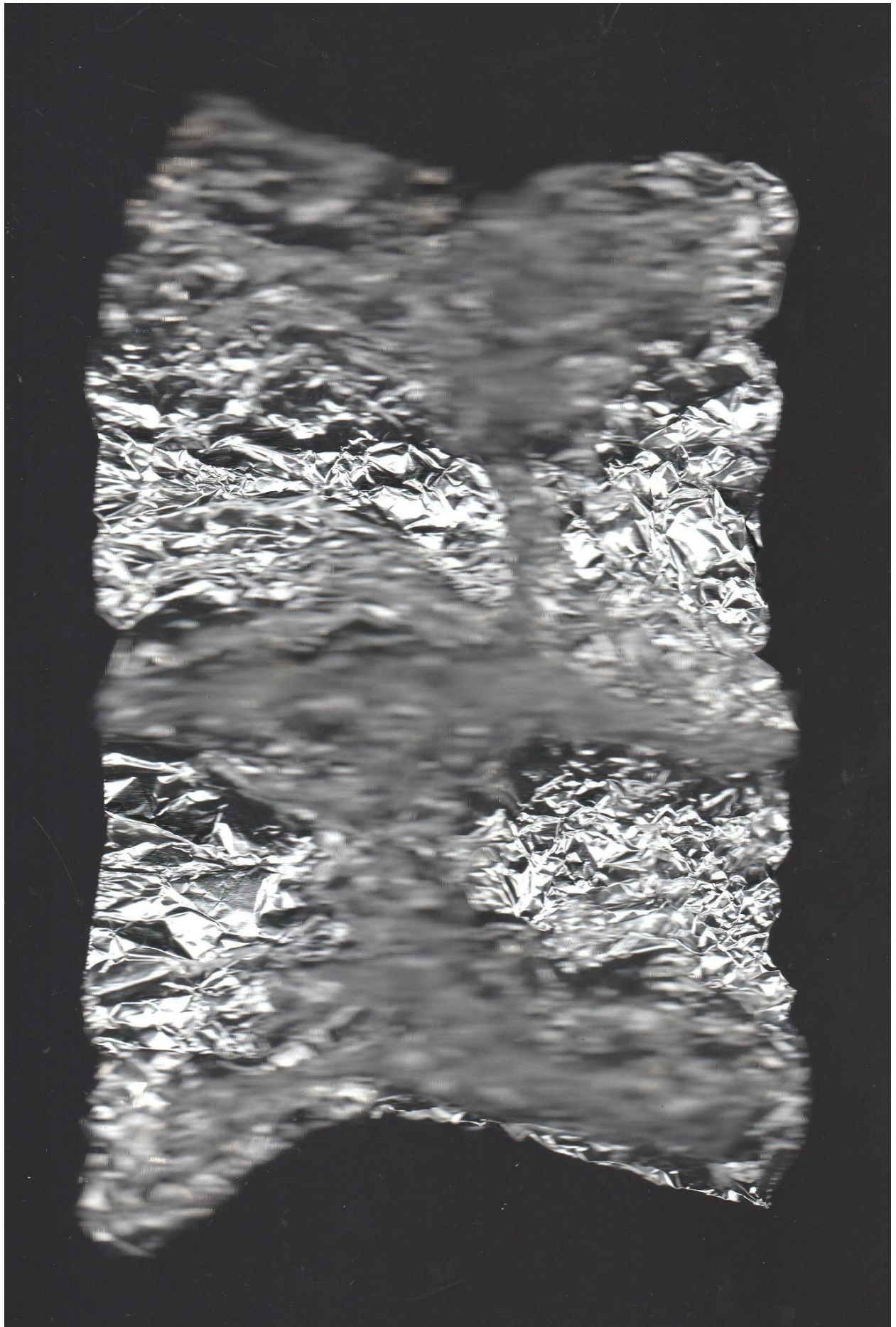








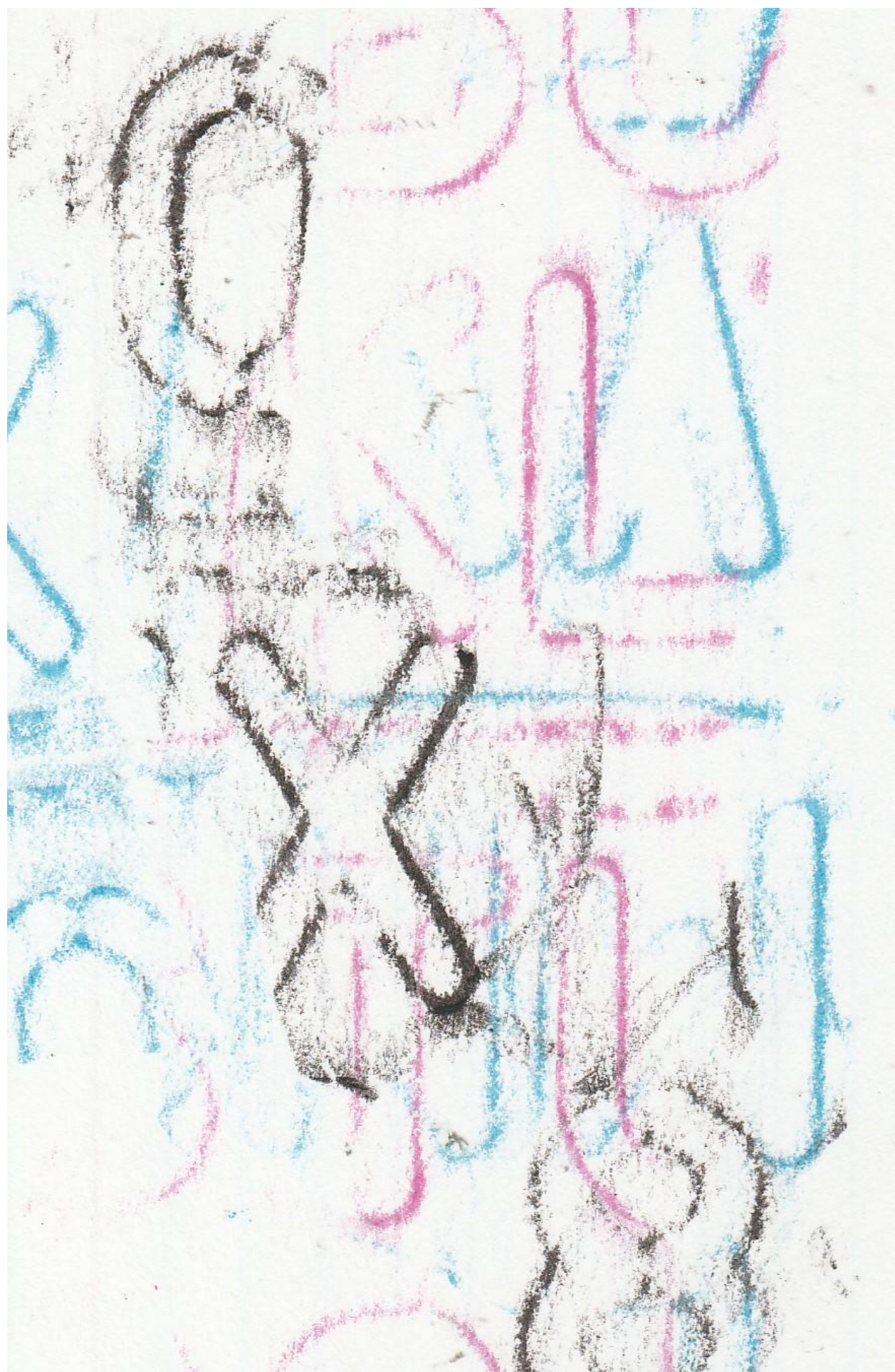






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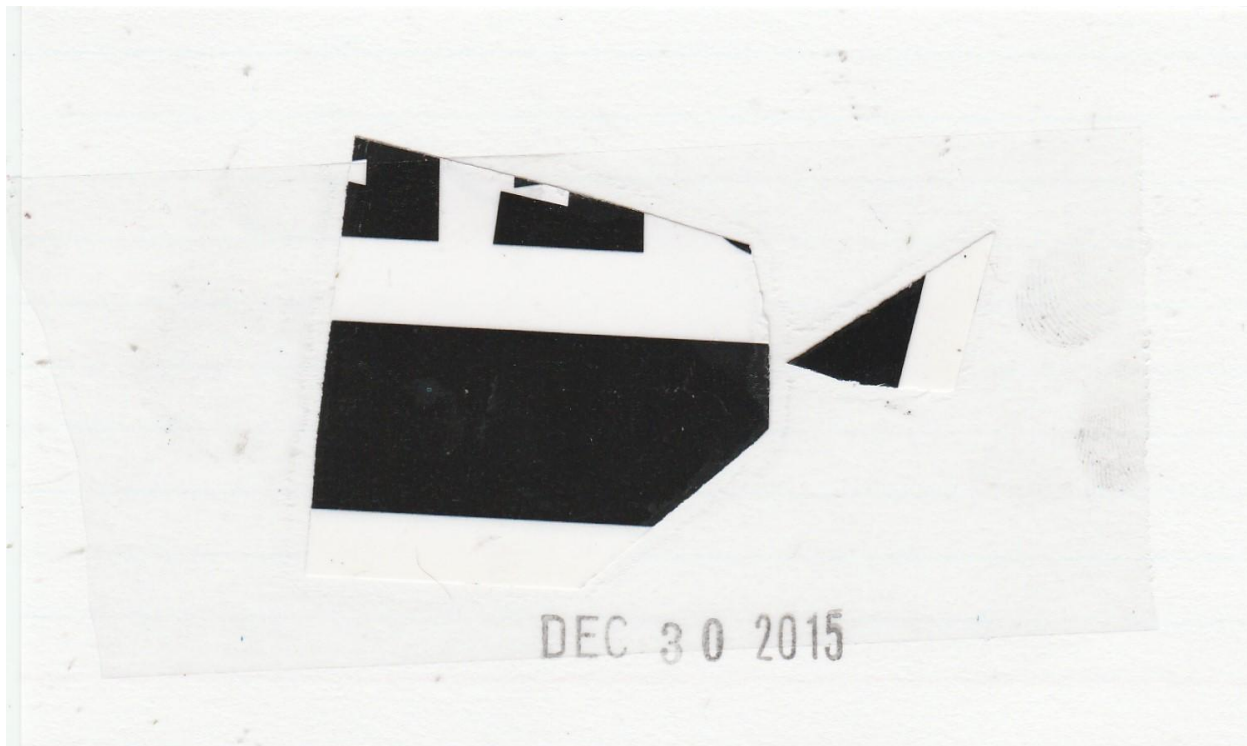
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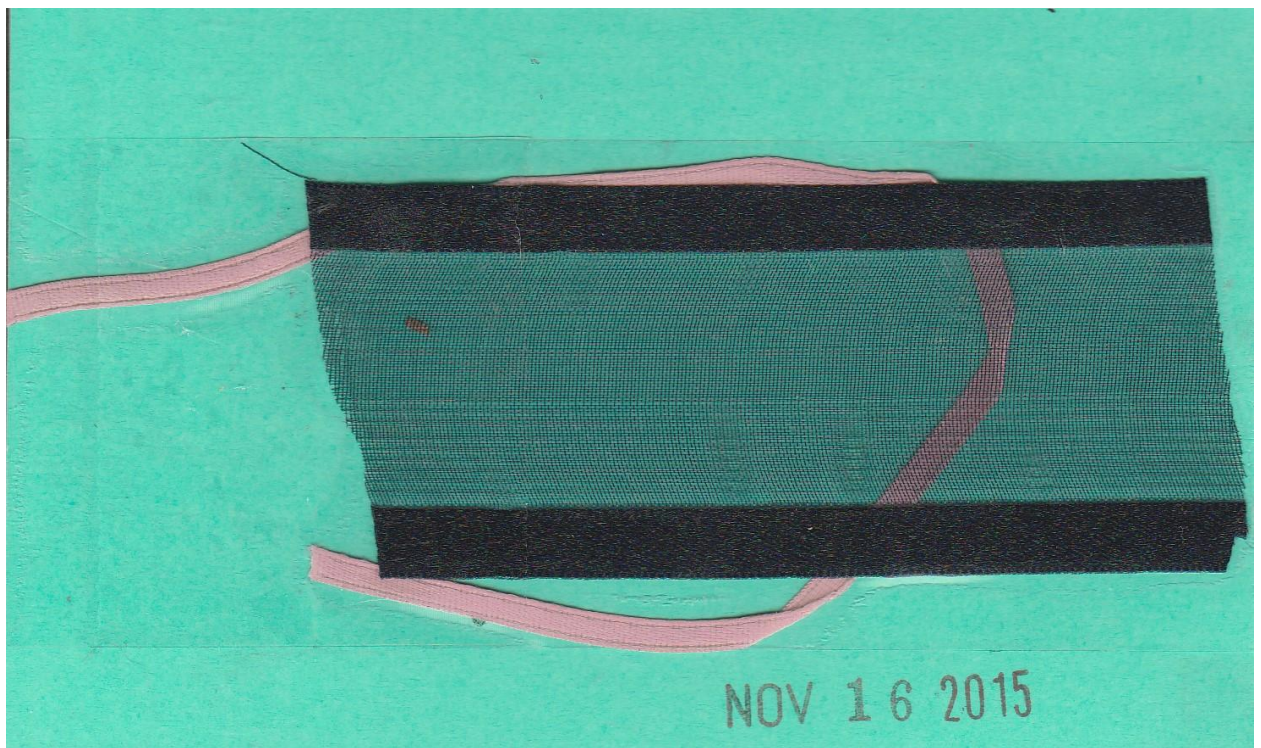




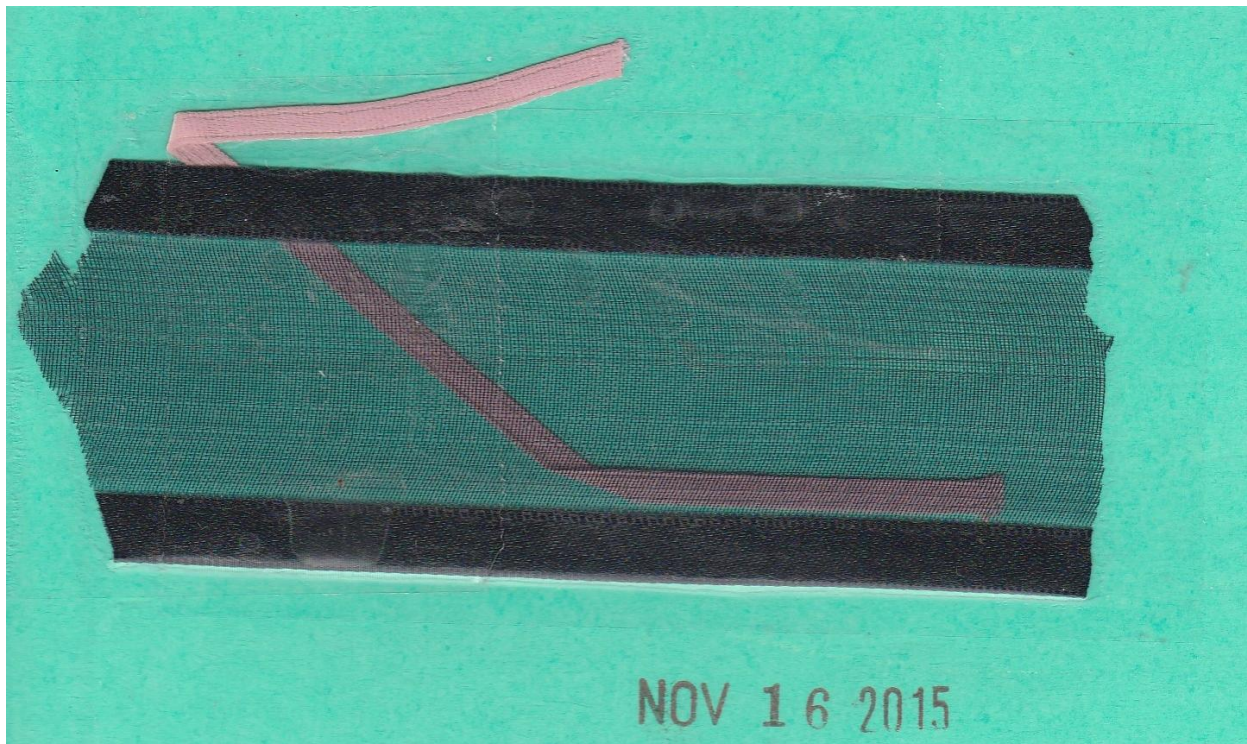














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A torn piece of paper with a black and white grid pattern, featuring the text "STUR" in yellow, set against a blue background.

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Product Description	Sale Qty	Final Price
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71c (Ndn) Eastern Tiger Swallowtail ( Butterfly)PSA (Unit Price:\$0.71)	1	\$0.71
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First-Class Mail	1	\$1.20
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Large Envelope  
(Domestic)  
(CHARLESTON, WV 25311)  
(Weight:0 Lb 1.60 Oz)  
(Expected Delivery Day)  
(Monday 11/02/2015)

First-Class Mail	1	\$1.20
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(Expected Delivery Day)  
(Monday 11/02/2015)

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Total		\$6.71
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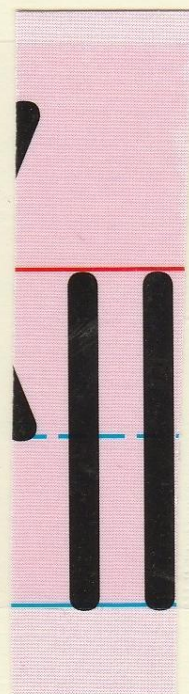
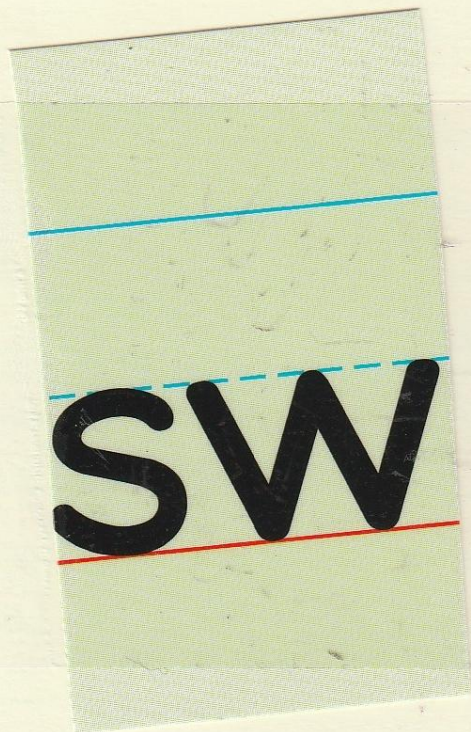
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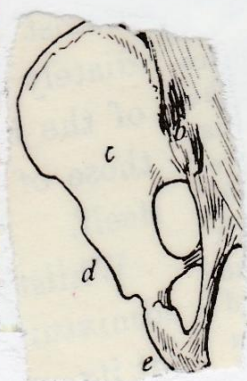


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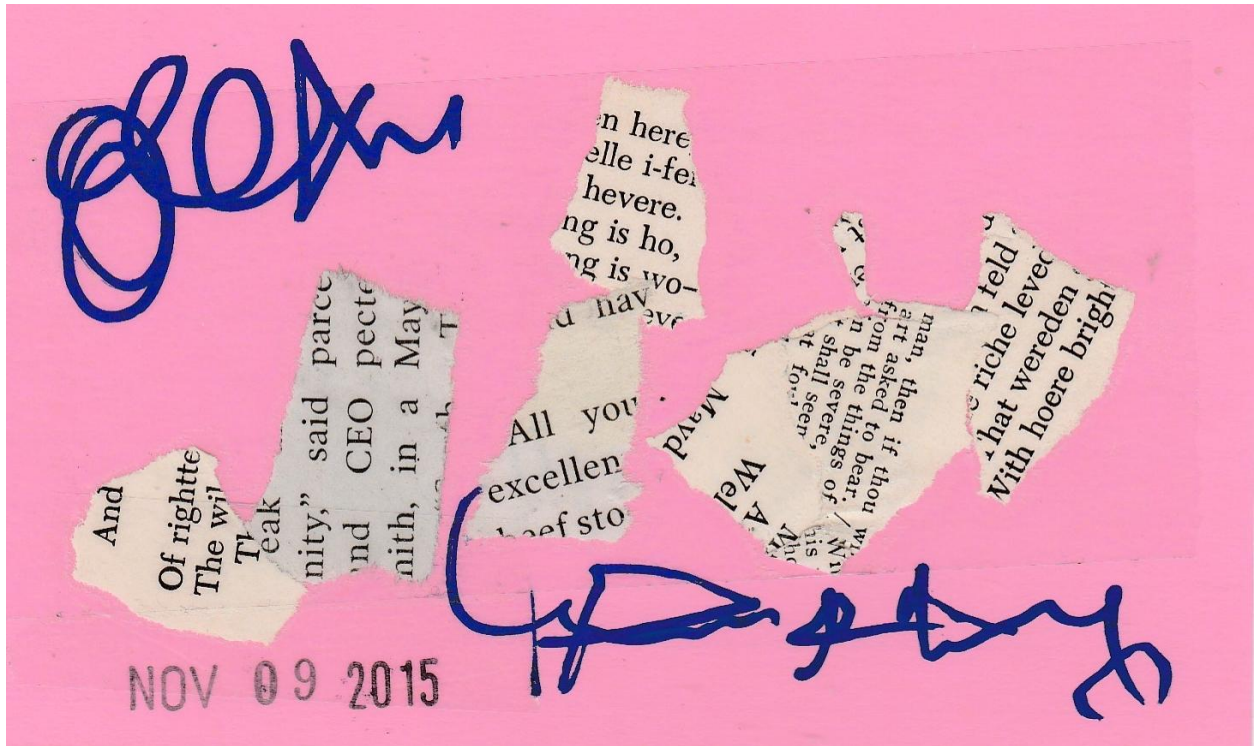


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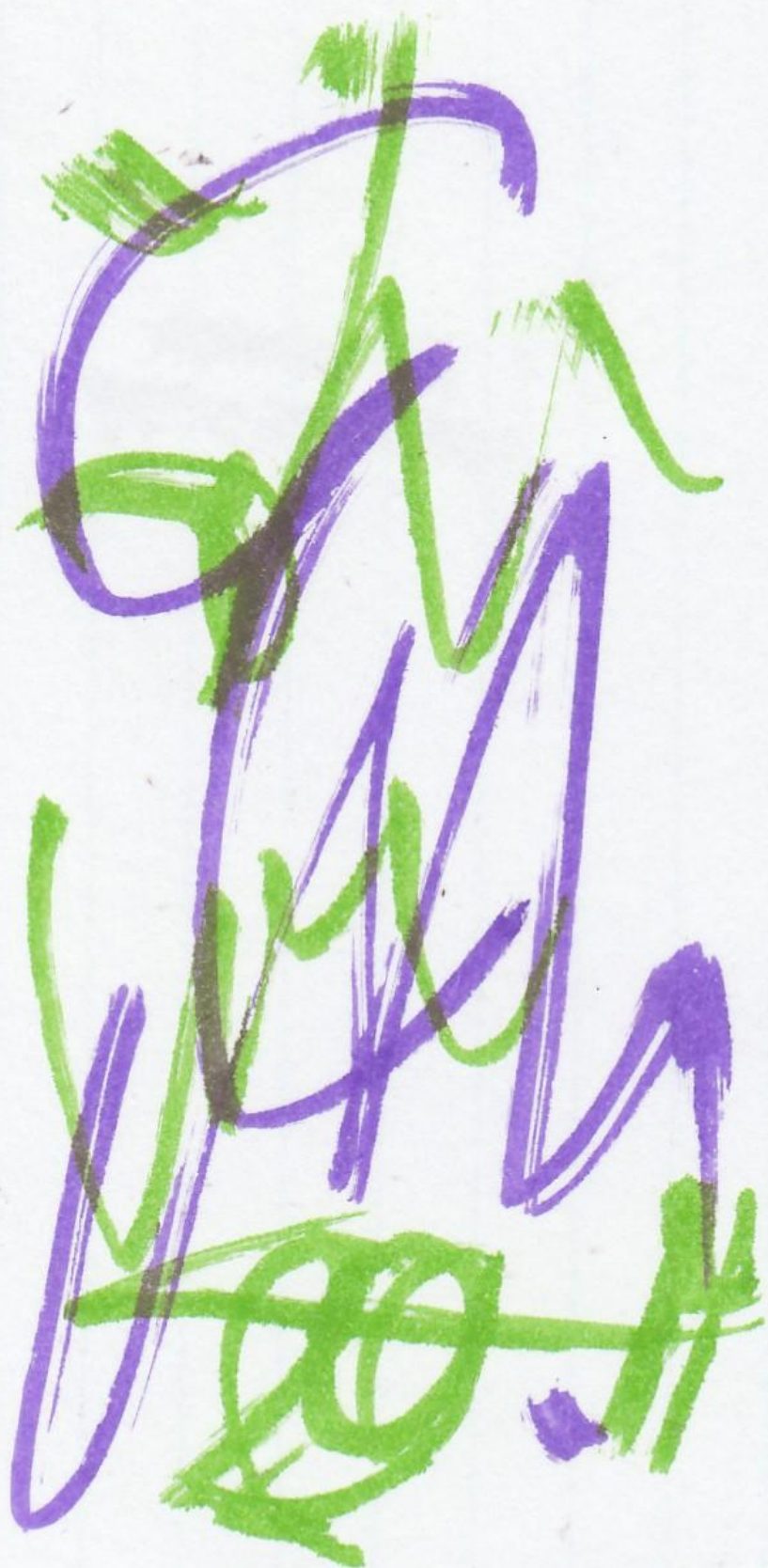




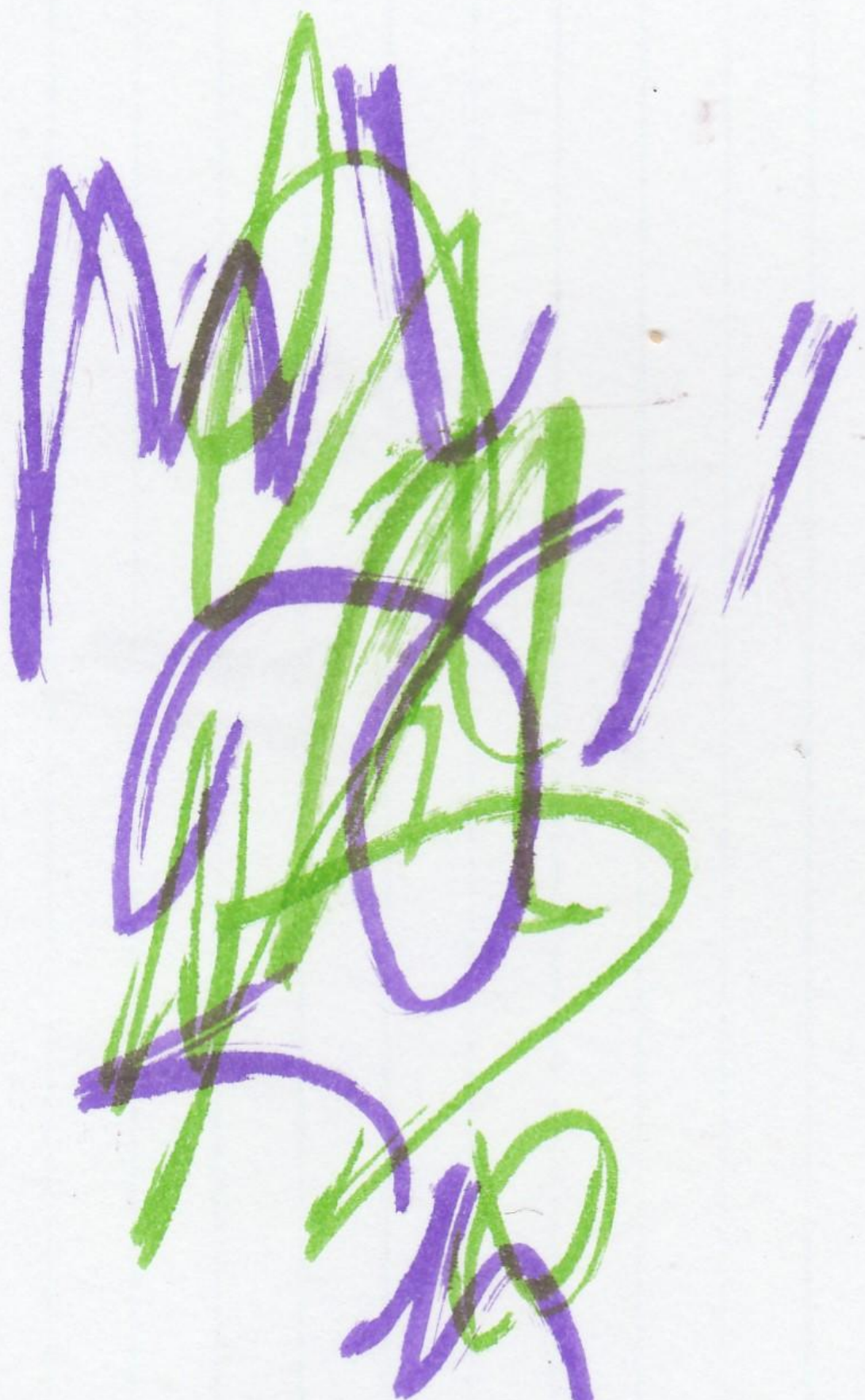








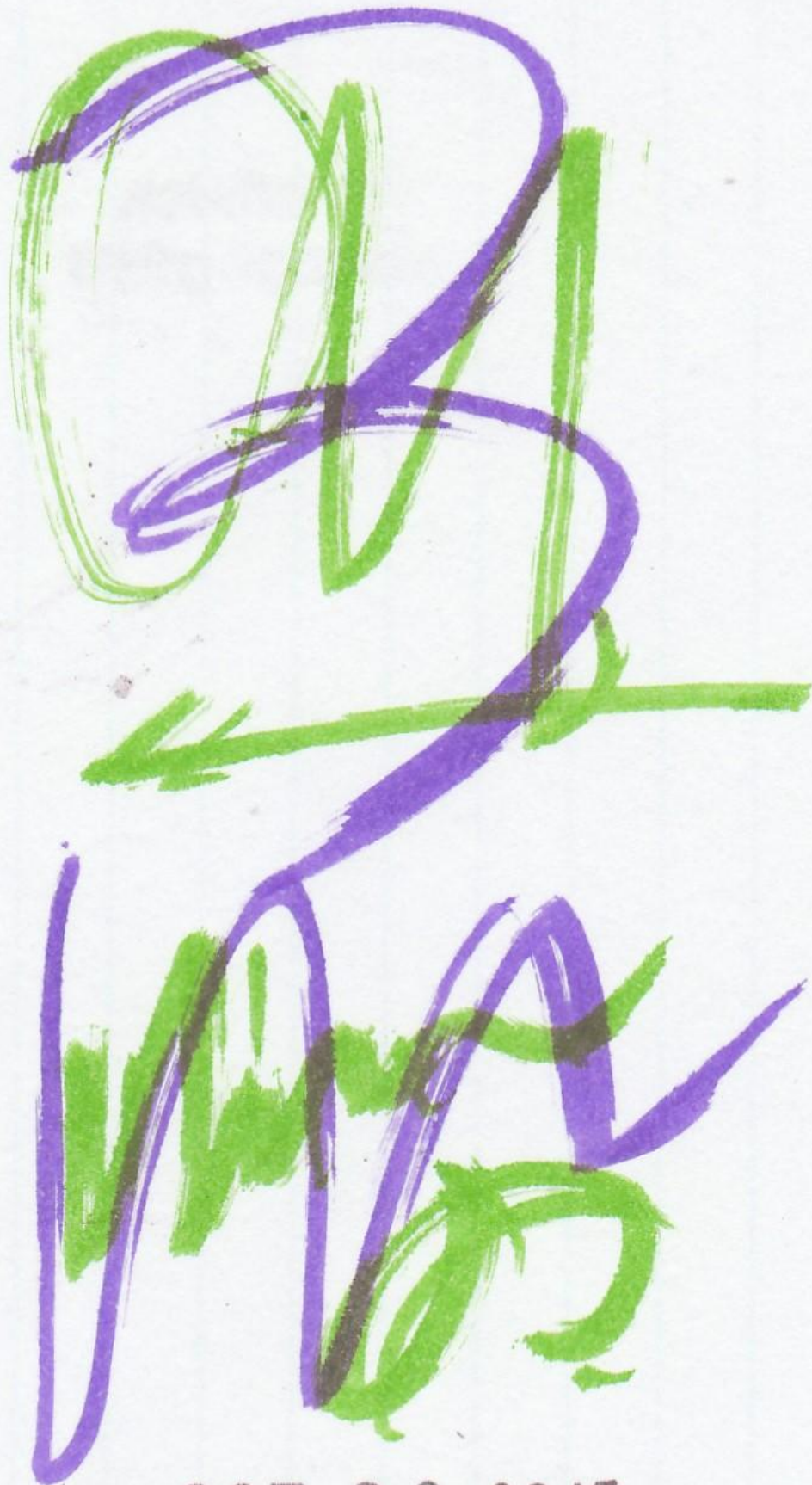
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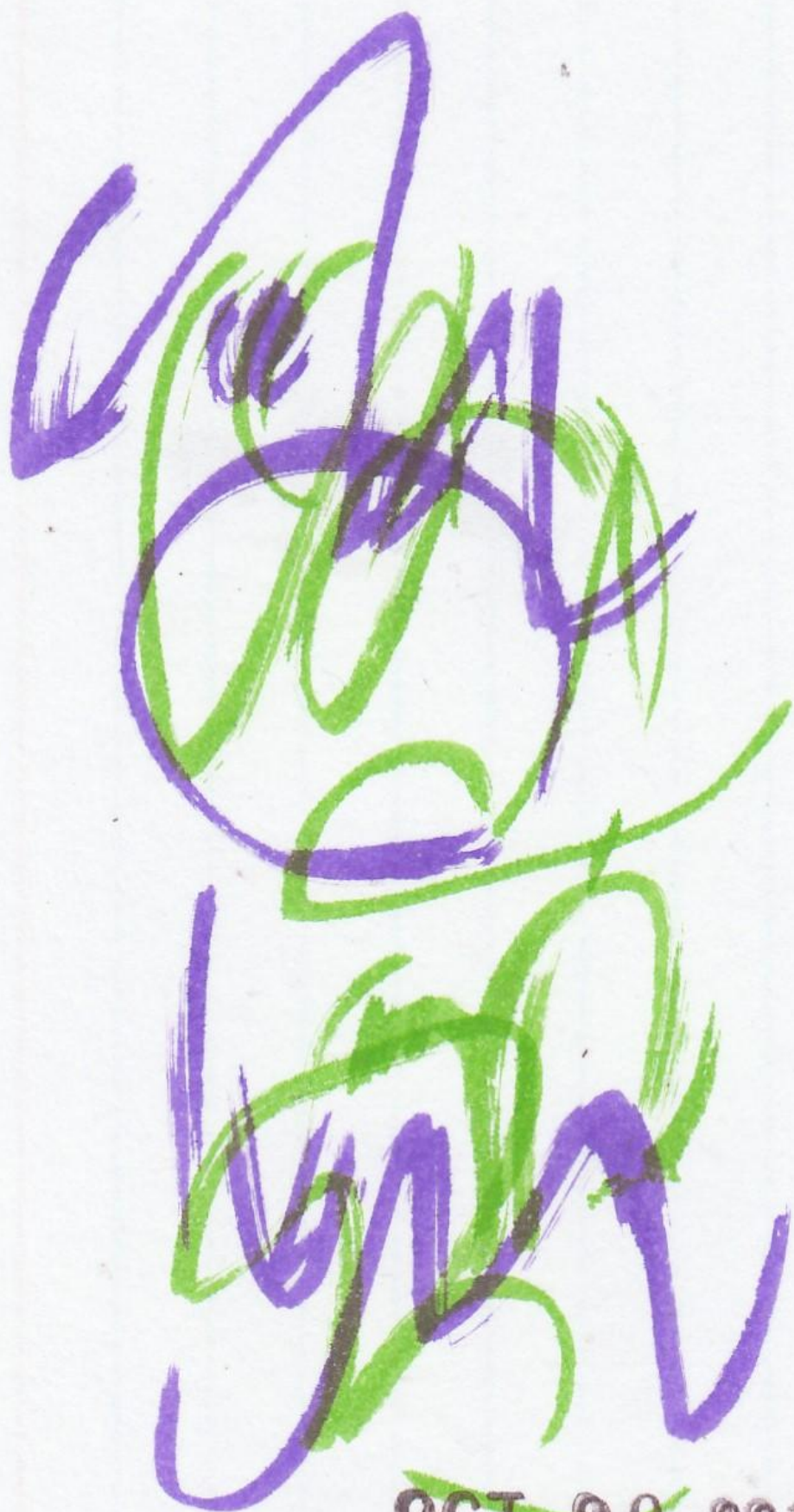
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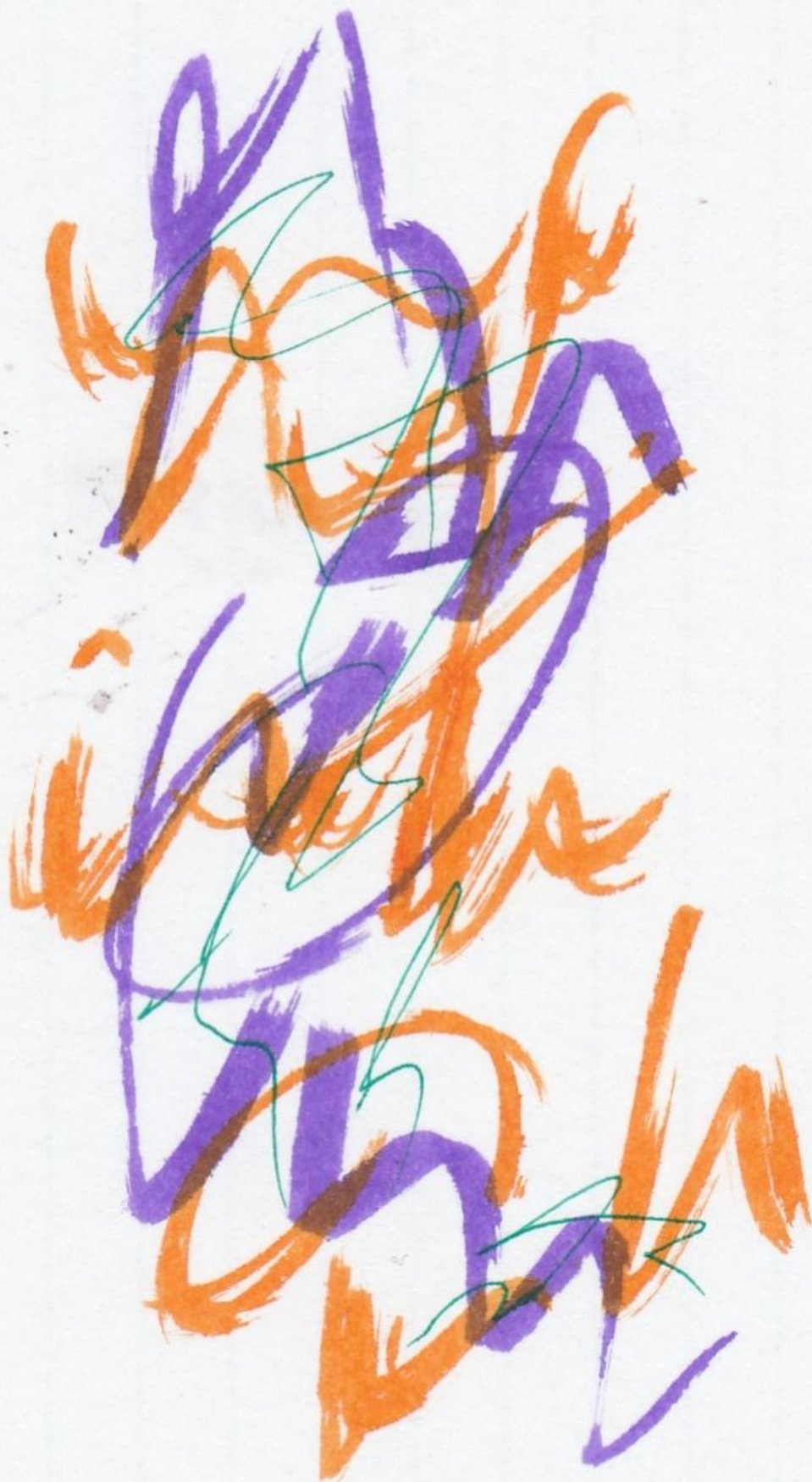


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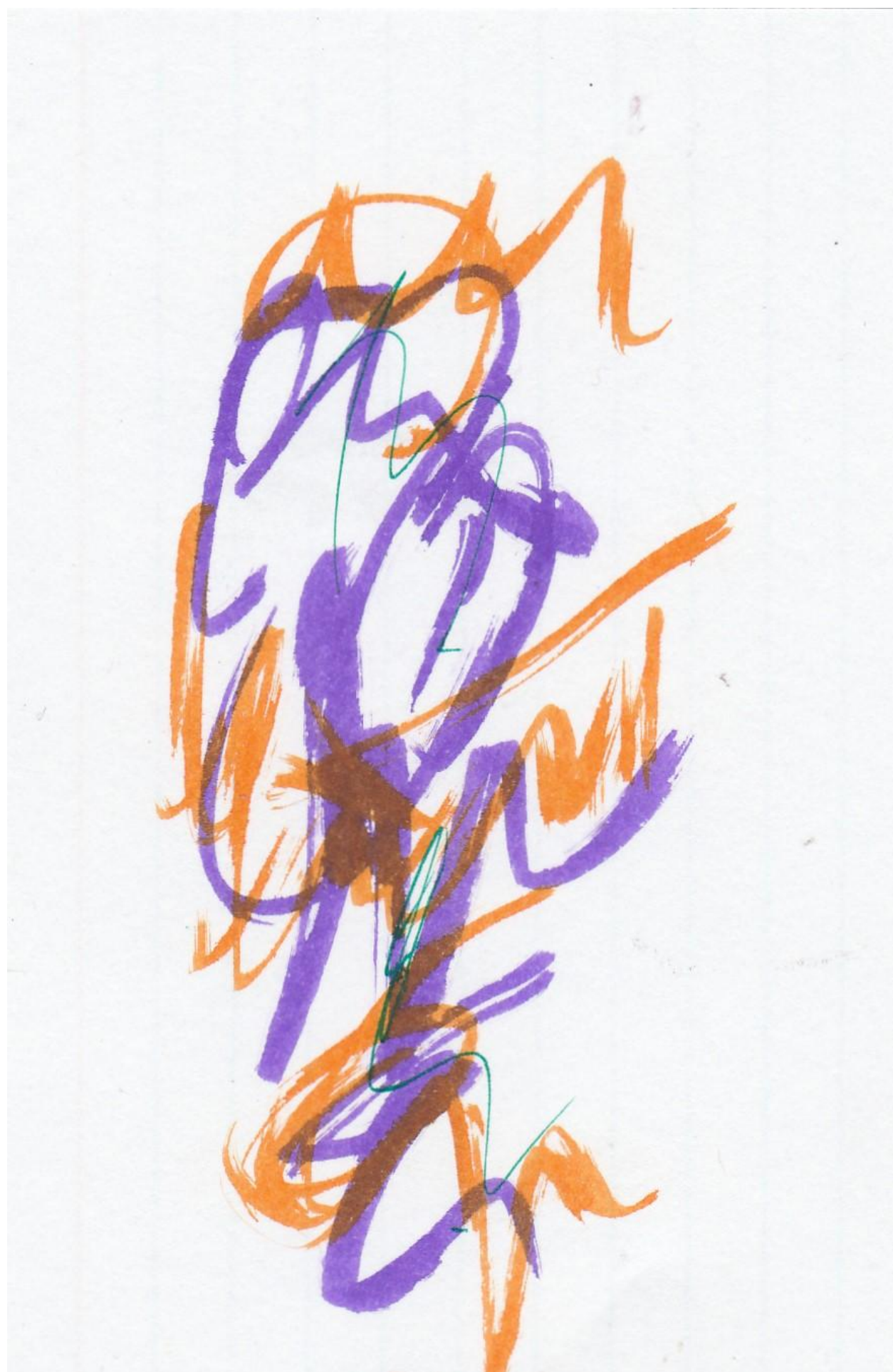




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man, and nature. His main interest in the *Discours* is clear, was in the latter, the science of nature, (this particular purpose was "to deduce rules in medicine of greater certainty than those at present in use.") Descartes himself an expert mathematician, attributed the success of mathematicians in his day to the method that they employed. Mathematicians began with the simplest truths, the foundational axioms, and pass step-by-step to knowledge of the more complex. He proposed to use "all that is best both in geometrical analysis and in algebra" to solve the problems of natural science. Each of these problems was to be divided into the simplest possible parts, and beginning with these simples, by chains of easy reasonings, satisfactory conclusions could be reached. This means, he admitted, assuming a specific order to exist in the natural world, although one cannot be sure that it does exist there. The aim is to project mathematical order into the physical world so as to enable the inquirer to understand it rationally. In every case the investigator should also check each link in the chain by careful computations and reviews. This procedure is rational in a specific way, for Descartes sought not merely any order, as all Rationalists do, but an order that is strictly any mathematics. Of fundamental importance to his whole epistemology is "to accept nothing as true which I do not know to be such clearly (*clairement*) that is, certainly to avoid precipitantly and prejudicially to comprise nothing more in my judgments than what presents itself so clearly and so distinctly to my mind, that I have no ground whatsoever for hoping it in doubt."

What is clear is "present and manifest to an attentive mind," and what is distinct is "precise and manifest to all other objects." The mind grasps the clear and distinct as infallibly true, so that an intuition of this order is the treasurable answer to Skepticism. Descartes held that "intuition" is not the fluctuating testimony of the senses, nor the misleading judgment of a wrongly continuing imagination, but the pure intellectual cognizing (*concevoir*) of which an unclouded and attentive mind is capable, a cognizing so ready and so distinct that we are wholly freed from doubt about that which we thus implicitly apprehend.

He who seeks for truth must not hope to find it in sense perception; he must "detach his mind" from the senses—not again in blundering imagination but in a pure intellectual apprehension of man's power to know indubitably by pure intellect, entirely by the light of reason.

Later, Descartes would seem to qualify the absoluteness and finality of *intuitus*, for he appeared to appeal to God's veracity as the final guarantee of the truth of what is known clearly and distinctly. Inasmuch as his argument—both for his own existence from his consciousness that he thinks (*Cogito, ergo sum*) and subsequently to God's existence—rests on intuition, it has been held that he is here involved in a vicious circle. His defenders, however, have held that no such circle is involved, that Descartes was pointing to the source of all man's powers in God and at the same time to his own failures, particularly his failures of memory. The failure, in some ways, applies to the occasions on which he fails to intuit clearly and distinctly; for, whenever he does so intuit, in spite of his general fallibility, he attains infallible knowledge. There is, further, a relation between *intuitus* and deduction. Descartes speaks of both as part of the intellectual faculty of knowledge, which knows and never fails to know. Yet, Descartes has it is not simple. Intuition is simple as sheer apprehension and also in its object. It can only apprehend "the simple nature" for the latter alone is clear and distinct. Deduction, on the other hand, is complex. Yet, it too, being intellectual, can give "man the truth, as long as he does not fail to err."

But the problem, then, is how to relate deduction to the intuitive apprehension of simple truth—which is what, in Descartes's view, knowledge essentially is. Deduction is

everything that he had hitherto accepted as true to a subject  
 disinterestedly, with his education, he decided to subject  
 account of a year and distinct knowledge. Having expressed  
 first, in which he says about method and, second, in his  
 comes to a *methodo* (1637, *Discourse on Method*, 1650).  
 in its features of his teaching, presented in his *Dis-*  
 became the father of modern Rationalism. His Rationalism  
 "Cartesian Rationalism." René Descartes is held to have  
 mark the birth of preceptual Rationalism.  
 — some are well-known as "the continental Rationalists" —  
 The early Rationalism. Descartes, Spinoza, and Leib-  
 nitz, and finally.  
 only entities, says Ockham, should not be unnecessary-  
 entity more than an abstraction thought to be a real  
 gested that *esse* (*being*), whether active or passive, might be  
 the philosophers' own mental creations. He even sug-  
 whether the intelligible species are anything other than  
 and Aquinas' Rationalism will be beyond Scotus. He asked  
 and the terms but he carried skepticism about *esse* and  
 century. Like Scotus he had no doubts about revelation  
 Frenchman, developed the same theme in the mid-14th  
 demonstration. William of Ockham, trained as an Oxford  
 only, and that, in Scotus' view, would be a true rational  
 through revelation: he can have no a priori proof—the  
 provide conclusive proof. Man knows of God's existence  
 the existence of the world to the existence of God, never  
 yielded that arguments from effects to causes (*e.g.*, from  
 the character of a truly rational knowledge and main-  
 Scotus, the great British Scholastic, sought to make clear  
 of two scholars. At the turn of the 14th century, thus  
 the death of Aquinas can be traced in the philosophies  
 The fortunes of Rationalism in Scholastic thought after  
 Rationalism.  
 like Aristotle in his epistemology, and he shared in his  
 powers. Of all the Scholastics, Aquinas was thus the most  
 knowledge is possible only on the possession of rational  
 not sensualism but is Rationalism in its recognition that  
 its recognition of the necessity of sensory experience is  
 however, that his own theory of knowledge, in spite of  
 of understanding, passive intellect. Aquinas made nature  
 work of intellect as active, and (2) the passive reception  
 intellect (1). The actualizing of the potential, which is the  
 Just as it is understood, there are thus two aspects to human  
 as illuminating the sensory so as to abstract the universal.  
 once as providing particular sense images and of intelli-  
 so Aquinas demonstrates the necessity of sensory experi-  
 tive reasoning.  
 give, but it gains enough to proceed methodically to dis-  
 powerful enough to gain immediate and full understand-  
 the human intellect—because of its lowly grade—is not  
 them receives the universal. Having received it, however,  
 them. The senses determine the particular, but intellect  
 by its power abstracts intelligible species or concepts from  
 mind) can be illuminated by active intellect, which then  
 because the sensory phantasmas (or) presentations of the  
 knowledge begins with sense experience and it can do so  
 it is not a guarantee that it is united with the body. Man's  
 that the human intellect comes to understand, and it is to  
 cess. On the contrary, it is through sensory experience  
 sensation and intellect are alien to one another in their  
 illuminated. Aquinas did not adopt the Platonist view of  
 as well as body—*i.e.*, intellectual as well as sensitive—  
 sensations provide the occasion, and the person, who is sen-  
 ing, what is to understand and is to be passive." Both sen-  
 ting in life is now actualized, and he gains understand-  
 intellect in life is all along present potentially, in its  
 consequence, when he experiences the sensible, and, in  
 is written: "But then he experiences the sensible, and, in  
 thing, he is at first like a clean tablet on which nothing  
 fential. Man needs the occasion to activate what is there,  
 man is intelligent, they are from the first present, in po-  
 Not that these principles are known innately; but, since  
 man *naturaliter*—*i.e.*, "everyone knows them."  
 as that the whole is greater than the part, which comes to  
 five knowledge since they can begin with principles, such  
 illimiting man, however, are not wholly deprived of im-  
 has a certain measure of imperfection as compared with  
 him and the reasoning are intellectual, though reasoning  
 through discursive reasoning. Nonetheless, both the in-  
 from one thing understood to another."

The work  
of Duns  
Scotus and  
William of  
Ockham



lithium-tellurium. For larger urban vehicles, lighter batteries also are required, but it is possible that nickel-zinc, nickel-cadmium, or even lead-acid can be successful with suitable development. For special vehicle and aircraft applications, where a higher cost can be justified, the zinc-zinc cell appears promising, and development of this type of battery to make it capable of deep discharge and long cycle life is likely to continue.

Another secondary battery, still under development but worthy of mention, is the sodium-sulfur battery that uses liquid sodium as one electrode, a solid aluminum-oxide electrolyte, and a sulfur and sodium sulfide mixture on the opposite side. A carbon current collector completes the cell. Current is produced when liquid sodium forms ions that migrate through the aluminum oxide and react with sulfur. The cell is reversible and has a high-energy capacity for its weight. Although it operates only at temperatures of about 580° F (250° C), its lightweight characteristics make it a contender for the battery of an electric car of the future. There are other high-energy batteries of this type also under development, one of which uses lithium and chlorine as the reactants.

After the initial surge of interest in fuel cells in the early 1960s, the only real applications to emerge have been for powering manned spacecraft. For longer missions to more distant planets, solar or nuclear generators are more appropriate, but regenerable or reversible fuel cells may be developed to store energy produced by these devices. For earth-orbit missions, and for lunar laboratory applications, hydrogen-oxygen cells are likely to remain in use.

The earlier promise of the fuel cell as a power source for automobiles is now recognized as a long-term prospect, and although research will continue toward this, it is likely to be at a low level. Increasing interest is being shown in static electrical generation from natural gas and liquid petroleum fuels for relatively small, local power stations, and the development of these for small communities continues.

### Magnetohydrodynamic devices

Magnetohydrodynamics is the study of the behavior of electrically conducting fluids (either liquids or gases) in the presence of electric and magnetic fields. Magnetohydrodynamics today is primarily concerned with gases. At ordinary temperatures and pressures, gases are composed of electrically neutral atoms or molecules, and do not conduct electricity. At temperatures of several thousand degrees or above, however, the motions of the gas particles are violent enough to dislodge some of the outer electrons from the atoms. The electrons thus freed are the resulting positive ions are easily made to move by an electric field; such ionized gases (plasmas) are usually good conductors of electricity. Magnetohydrodynamic (MHD) devices generate electric current by the interaction of an electrically conducting fluid, such as a plasma, and a magnetic field. Closely related are electrogasdynamic (EGD) devices, which generate electric current by the interaction of an electrically insulating, or nonconducting, fluid carrying charged particles or ions, and an electric field.

#### GENERAL CONSIDERATIONS

**Principles of operation.** Direct energy conversion, as performed by MHD and EGD devices, involves the direct transformation of heat or radiation into electricity, rather than first to mechanical energy, and then to electricity. In a conventional power plant, the energy stored in a fossil or nuclear fuel generates heat to produce steam, which in turn drives a generator to produce electricity. By contrast, energy in MHD or EGD devices is transformed to electricity directly from the thermal and kinetic energy of the fluid. Only the fluid inside the MHD or EGD device is in motion; the device itself has no moving parts. Because of this, the device can operate at extremely high temperatures, which would destroy the metals and lubricants in a conventional steam turbine.

**MHD generator operation.** Figure 46 illustrates the basic principles of a magnetohydrodynamic (MHD) electrical generator. The conducting fluid passes through a duct that

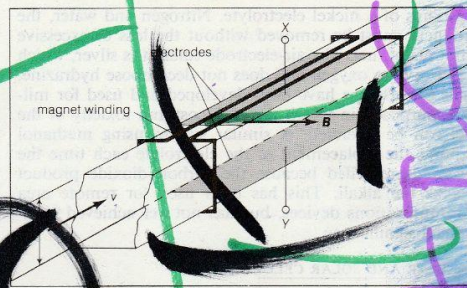


Figure 46: Operating principles of a magnetohydrodynamic electrical generator (see text).

has two opposite conducting walls (electrodes) and two opposite insulating walls. A strong magnetic field ( $B$ ) is established at right angles to the duct. As the conducting fluid flows through the duct and the magnetic field with a velocity  $v$ , it generates an electrical voltage across the electrodes  $xy$ . The actual voltage generated depends on the velocity of flow, the strength of the magnetic field, and the height  $h$  (or diameter) of the duct. This voltage could measure velocity of flow, and the device would become a flowmeter.

If an electrical load of some kind, such as a light bulb, is connected across the electrodes, current will flow through the load. Inside the duct, a direct current flows between the two electrodes. This current exerts a retarding force on the fluid, and work must be done by the fluid to overcome this force. The work thus extracted from the fluid is converted to electricity. The retarding force is called electromagnetic braking.

The reverse effect can also be made to take place. If an electric current is driven through the fluid by an external battery or generator, a force is exerted on the fluid and the device becomes a pump. This technique may be applied effectively to pump liquid metals such as mercury and molten sodium.

**EGD generator operation.** An electrogasdynamic (EGD) device also extracts power directly from fluid flow, but the principles of operation are different (Figure 47). Basically, the fluid flow is used to form an electrical charge, in the form of ions or charged particles, from a region of low voltage to a region of high voltage, against an electric field  $E$ . If the ions are collected at the far end of the generator, a current,  $I$ , can flow through a load. The electrostatic retarding force,  $F$ , on the fluid is  $qE$  per unit volume, in which  $q$  is the charge density and  $E$  the collector electrode voltage divided by the distance between electrodes, and the flow does work against this force. If, instead, the electric field is reversed, the ions are forced ahead more rapidly and the device becomes a pump. The charged particles are formed by passing the fluid through an electrical discharge in which the voltage is high enough to produce ionization.

**Historical background and applications.** The basic principles of magnetohydrodynamics and electrogasdynamics have been known for over a century. The essential features of the interaction between an electrically conducting fluid and a magnetic field, and of electrostatics, were described

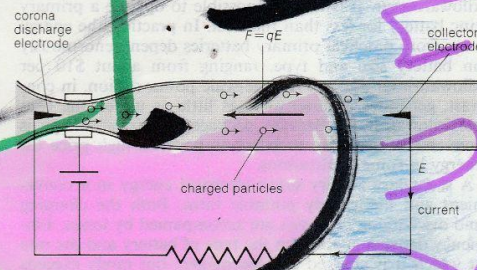


Figure 47: Operating principles of an electrogasdynamic converter (see text).

EGD devices

Basic principles

OCT 28 2015



In addition to the deontological and teleological normative ethical theories that have been presented above, some 20th-century philosophers have presented theories of a mixed character. While their theories have obvious similarities to one or another of the normative ethical doctrines, they are presented as being logical or conceptual, as primarily explaining meanings of such words as moral or ought, as well as the nature of moral reasons for moral reasoning. Thus, while the theories are presented as mainly or exclusively metaethical, their authors derive substantive normative ethical conclusions from them.

**Moralistic reasons.** These theories focus on the question of logical reasons in ethics, reasons of two kinds: material and formal. The material kinds of reasons have a definite moral content and take one normative ethical position as against another; yet, the philosophers who proposed them set them forth as deriving from definitions of what constitutes ethical or moral reasons in general. Thus, Stephen Toulmin, a British-American philosopher of science and of ethics, presented his main problem to the kinds of change in behaviour at which reasoning must be aimed. If we are to call it moral or ethical, and its solution was that the 'function' of ethics 'to correlate our feelings and behaviour in such a way as to make the fulfilment of everyone's aims and desires as far as possible compatible', so that 'what makes us call a judgement ethical is the fact that it is used to harmonise the very meaning or definition of ethics or morality. On this view, it becomes logically impossible to refer to ethical egoism as an ethical theory or to the various nationalistic, racialist, elitist, and other particularistic moralities. The view seems to settle by definition what preceding moral philosophers regarded as the central problem for normative ethical argument: how it can be established that one system of normative ethics is rationally superior to its rival systems. Similar considerations apply to the statement of Kohlhauser's moral philosophy, that 'moral rules must be for the good of everyone alike', especially as this is presented as part of the definition of the moral point of view' and hence also of 'moral reasons'.

Mixed formal and material reasons. The other kind of reason presented by the 20th-century writers who make consisting mainly in their self-interested desires. The result of this combination in Singer's doctrine yields a line of argument that says that, if the consequences of everyone's doing a certain kind of action would be disastrous, then one ought to do that kind of action. The corresponding result of this doctrine is a line of argument that may be divided into three steps. First, a person holds that he ought to perform a certain kind of harmful action toward someone else because the latter has some quality. Second, one recognises that, if he, the prospective agent, were to perform that action on his intended victim. Each of these positions makes suggestive points about the logic of moral argument, some of their difficulties, however, that, in each case, the material considerations that they combine with the formal one are contingent on men's variable feelings or inclinations. People may differ in their beliefs about what consequences are disastrous, and they may also differ in the extent to which they are willing to undergo counterfactual conditional actions. The doctrines of good reasons theories

Bad con-sequences and human-inclinations

OCT 28 2015

Mixed  
tetrahedral and  
octahedral  
neotenes

## Good reasons theories



cal reaction and thereby form negative ions. They are re-  
CHEMISTRY Chemical elements that are not good conductors of  
electricity and heat. Nonmetals tend to gain electrons in chemi-

nonmetals \ˈnɑn-ˈmɛ-təz/ n.

inherited by an organism.

NONDISJUNCTION \ˈnɑn-dɪs-ˌjʌŋ(k)-ˈʃən/ n.  
biology The failure of two chromosomes to separate during  
the reduction division of cells.

nonconformity \ˈnɑn-kən-ˈfɔr-mə-ti/ n.

Earth science A surface, usually irregular, between a younger  
sedimentary rock layer and an older mass of igneous or meta-  
morphitic rocks; see unconformity.

nonconformity \ˈnɑn-kən-ˈfɔr-mə-ti/ n.

physics A substance that does not readily transmit such as  
Rubber, a NONCONDUCTOR, is used as electric insulation.

nonconductor \ˈnɑn-kən-ˈdʌk-tər/ n.

MATHEMATICS A polygon having nine sides.  
Each central angle of a regular nonagon is equal to 40 degrees.

nonagon \ˈnɑ-nɒ-ˈɡən/ n.

dolomite.

This commonly occurs as a nodules in chalk, limestone and  
legumes caused by nitrogen-fixing bacteria.

small cone-shaped, root-like growth on the roots of  
stem or other parts of a plant, such as growths on the roots of

of sedimentary rock; it differs in makeup from the main rock  
and apparently was formed after the rock was deposited.

nodule \ˈnɒd-(ə)l/ n.

A lymph node may swell if it becomes infected in the process  
of fighting lymphatic fluid.

intersect another orbit or plane, such as the elliptic  
of two points where the orbit of a celestial body appears to in-

has very little, or no, vibratory motion. 4. ASTROLOGY Either  
vibrating object (as a string), a point, line or other part that

nonmetals

NONCONFORMITY

IGNEOUS ROCK

NONCONFORMITY

SEDIMENTARY

NONCONDUCTOR



INSULATOR

CEMENT

INSULATOR

INSULATOR

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normal solution \n

CHEMISTRY. For a solution containing 1 mole of a substance in 1 liter of solution, of replaceable hydrogen ions, the normality is 1. For a solution containing 2 moles of replaceable hydrogen ions in 1 liter of solution; see normality.

ten milliliters of a solution containing 10 milliliters of a normal solution.

Northern Hemisphere the part of the earth's surface that is north of the equator. In the Southern Hemisphere, the part of the earth's surface that is south of the equator.

NORTHERN HEMISPHERE



GEOGRAPHICAL NORTH POLE



NORTH MAGNETIC POLE



BIG DIPPER

above the horizon. At the time of the NORTH STAR is seen on the horizon.

OCT 28 2015

left side  
image pce



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VOTE

Tuesday

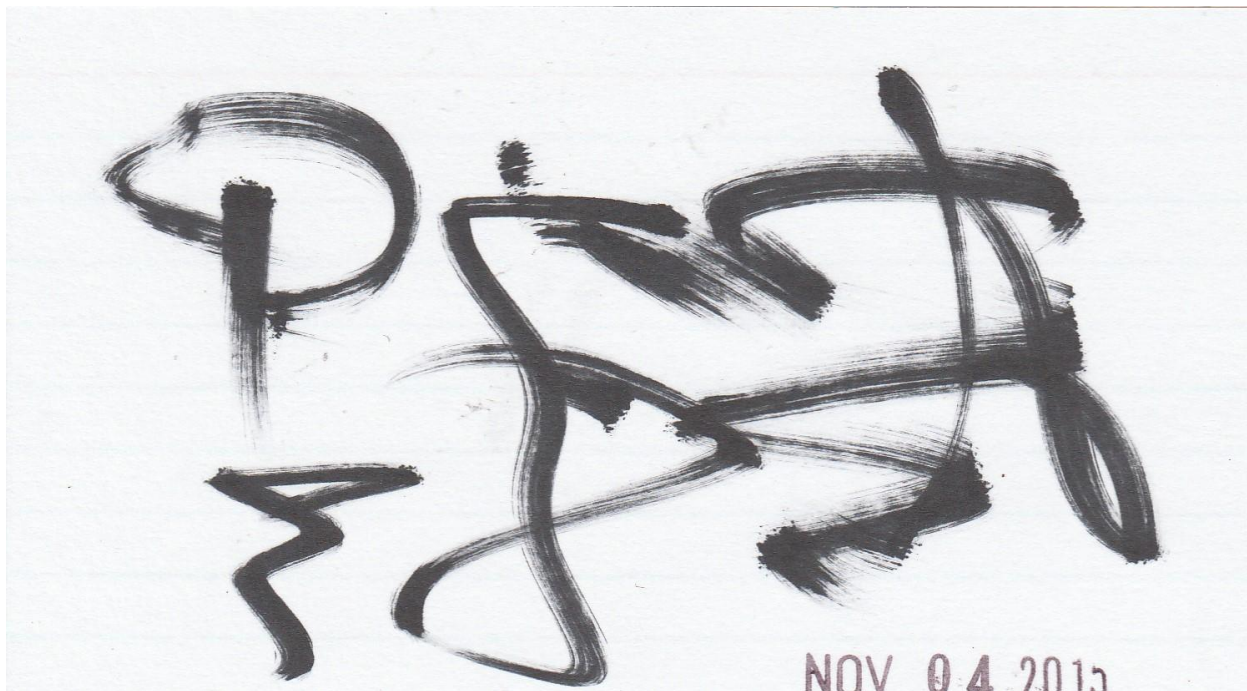
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Handwritten signature in black ink, featuring a large, stylized 'Z' or 'N' shape, with red ink scribbles overlaid.

DEC 30 2015





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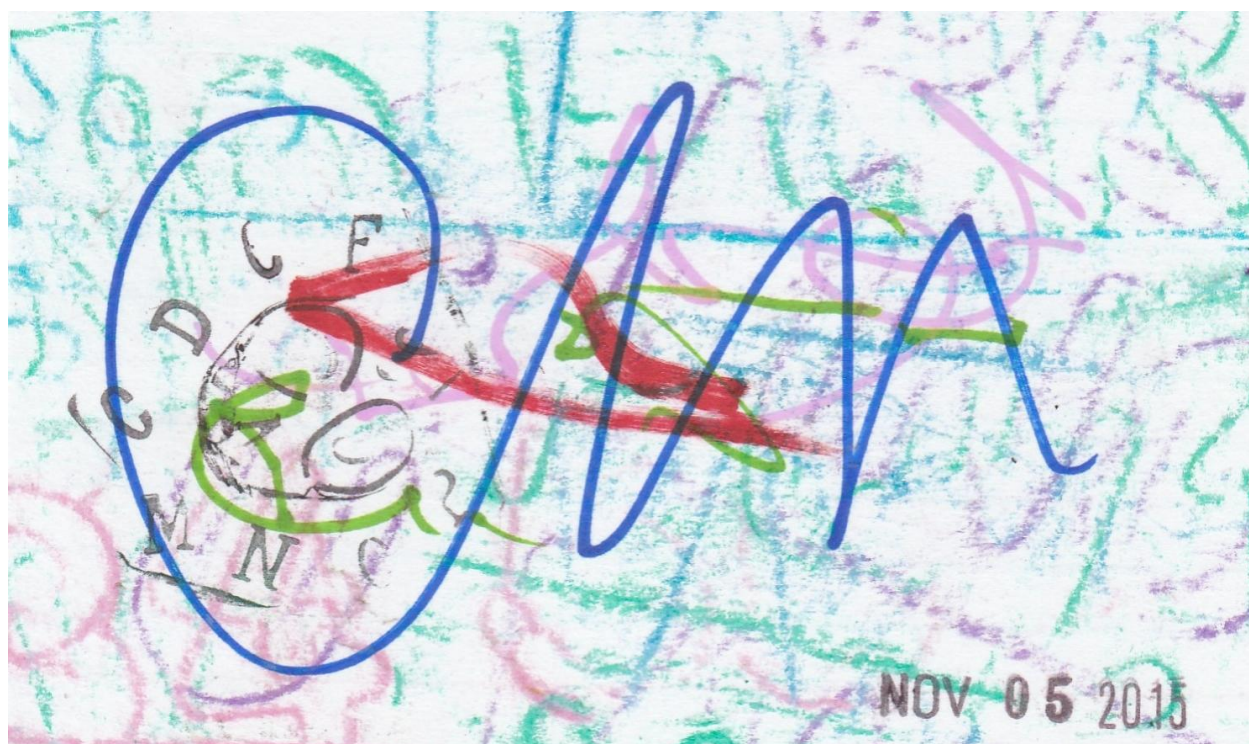
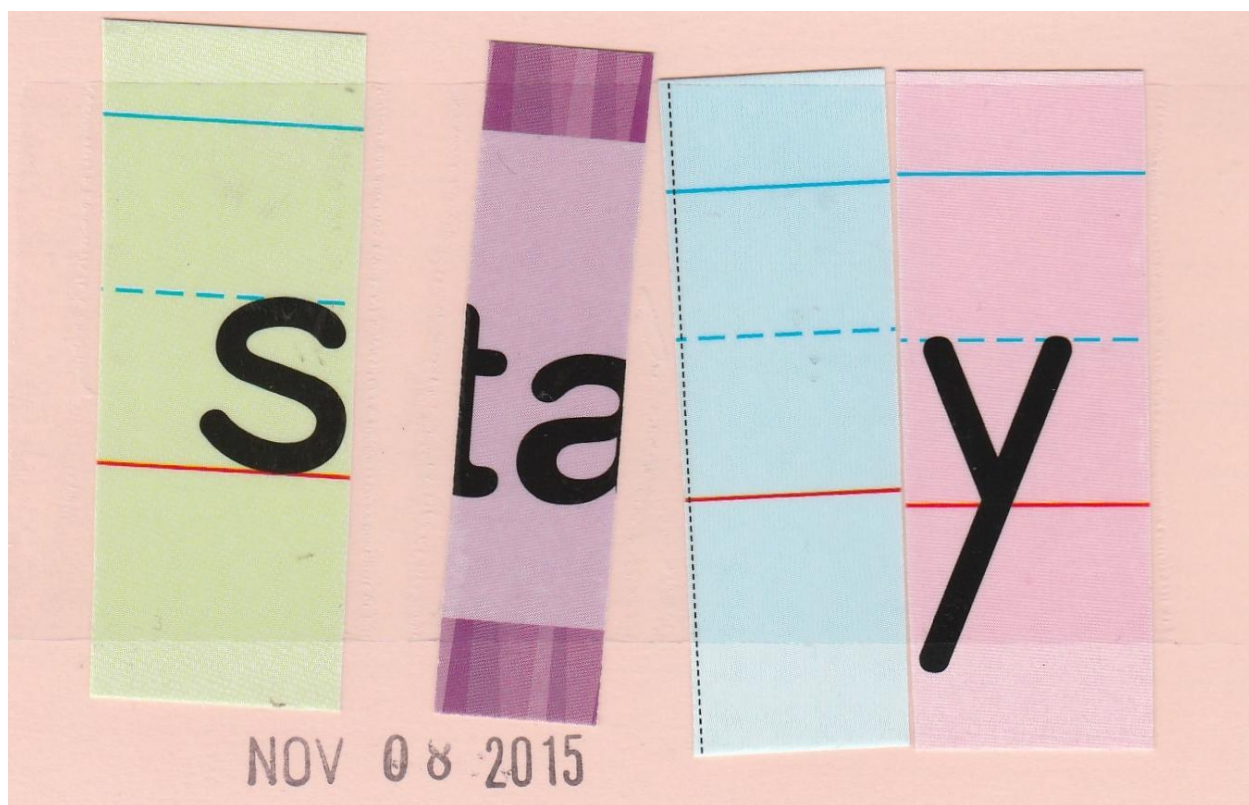
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